

NP007

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s):	David Meltzer	Group Art Unit:	2817
Serial No.:	10/733,094	Examiner:	Michael B. Shingleton
Filed:	December 11, 2003	Confirmation No.:	9145
Title:	Temperature Compensation for a Variable Frequency Oscillator without Reducing Pull Range		

**TERMINAL DISCLAIMER AND CERTIFICATE UNDER 37 CFR §3.73(b)**

Sir:

Your petitioner, Seiko Epson Corporation, a corporation duly organized under the laws of Japan, having a principal office at 3-5, Owa 3-chome, Suwa-shi, Nagano-ken, 392-8502 Japan, and duly represented by the undersigned, represents that it is the assignee of the full title and interest in and to the above-identified application, Serial No. 10/733,094 filed December 11, 2003, as evidenced by the deed of Assignment recorded on August 11, 2004, at Reel 015018, Frame(s) 0495, in parent application Serial No. 10/733,094.

Your petitioner hereby disclaims the terminal part if any, of any patent granted on the above-identified application which would extend beyond the expiration date of the full statutory term of any U.S. patent issuing from application Serial No. 10/733,143, filed on or about the 11th day of December 2003, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to any U.S. patent issuing from application Serial No. 10/733,143, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

Your petitioner does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of the full statutory term of any U.S. patent issuing from application Serial No. 10/733,143, in the event that subsequent hereto any U.S. patent issuing from application Serial No. 10/733,143, expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is the subject of any disclaimer under 37 CFR §1.321(a), has all claims canceled by a reexamination certificate or is otherwise terminated prior to the expiration of its statutory term as presently shortened by any terminal disclaimer.

Petitioner is the assignee of the entire interest in and to the above-identified application, as evidenced by the assignment recorded on August 11, 2004, at Reel 015018, Frame(s) 0414, a copy of which is attached to this disclaimer.

NP007

For submissions on behalf of Seiko Epson Corporation, the undersigned, whose title is supplied below, is empowered to act on behalf of the Petitioner

Date: June 27, 2006

By: /Rosalio Haro/  
Rosalio Haro  
Registration No. 42,633

Epson Research and Development, Inc.  
Intellectual Property Department  
150 River Oaks Parkway, Suite 225  
San Jose, CA 95134  
Customer No. 20178  
Phone: (408) 952-6000  
Facsimile: (408) 954-9058



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*700104258A\*

AUGUST 23, 2004

PTAS

EPSON RESEARCH DEVELOPMENT, INC.  
ROSALIO HARO  
INTELLECTUAL PROPERTY DEPARTMENT  
150 RIVER OAKS PARKWAY, SUITE 225  
SAN JOSE, CA 95134

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/11/2004

REEL/FRAME: 015018/0495  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: NP007

ASSIGNOR:

EPSON RESEARCH AND DEVELOPMENT,  
INC.

DOC DATE: 08/10/2004

ASSIGNEE:

SEIKO EPSON CORPORATION  
4-1 NISHISHINJUKU 2-CHOME,  
SHINJUKU-KU  
TOKYO, JAPAN

SERIAL NUMBER: 10733094

FILING DATE: 12/11/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: TEMPERATURE COMPENSATION FOR A VARIABLE FREQUENCY OSCILLATOR  
WITHOUT REDUCING PULL RANGE

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PAGE 003/004

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015018/0495 PAGE 2

STEVEN POST, EXAMINER  
ASSIGNMENT DIVISION  
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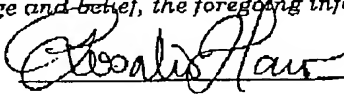
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NP007

To The Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<b>1. Name of conveying party(ies):</b> Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b> Name: <i>Seiko Epson Corporation</i> Internal Address: Street Address: <i>4-1 Nishishinjuku 2-Chome, Shinjuku-ku, Tokyo, Japan</i>	
<b>3. Nature of Conveyance:</b>  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: August 10, 2004		Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No(s). 10/733,094  B. Patent No(s).  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Intellectual Property Department Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134 Customer No. 20178		<b>6. Total number of applications and patents involved:</b> 1  <b>7. Total fee (37 CFR 3.41).....\$40.00</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.  <b>8. Deposit Account Number: 19-2746</b>	
<b>DO NOT USE THIS SPACE</b>			
<b>9. Statement and signature:</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any copy is a true copy of the original document.</i>  Rosalio Haro  Date: 08/11/04 Registration No. 42,633			
Total number of pages including cover sheet, attachments and document:			3

ASSIGNMENT  
Corporate

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, having a principal place of business at 150 River Oaks Parkway, Suite 225, San Jose, California 95134 (hereafter the "Assignor"), is the owner by respective Assignment of United States Patent Application identified below (hereafter sometimes called the "Patent Application").

SEIKO EPSON CORPORATION, a corporation of Japan, having a place of business at 4-1 Nishishinjuku 2-chome, Shinjuku-ku Tokyo, Japan (hereafter the "Assignee"), desires to acquire all of the rights to the Patent Application and all inventions described and claimed therein.

THEREFORE, in consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to it, Assignor hereby sells and assigns to the Assignee the entire right, title and interest in and to the Patent Application identified below, and all inventions described and claimed therein, in any and all Letters Patent therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such applications or Letters Patent to the full end of the term or terms for which such Letters Patent issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the Assignor had this Assignment and sale not been made.

<u>ERD Case No.</u>	<u>U. S. Serial No.</u>	<u>U. S. Filing Date</u>	<u>Title</u>
NP007	10/733,094	December 11, 2003	Temperature Compensation for a Variable Frequency Oscillator without Reducing Pull Range

By its undersigned representative, the Assignor agrees

a. to execute all papers necessary in connection with the Patent Application and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute a separate Assignment in connection with such application as the Assignee may deem necessary or expedient;

b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application or any continuation, division, reissue or reexamination thereof and to cooperate with

the Assignee in every way possible in obtaining evidence and going forward with such interference; and

c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on the Patent Application and on any continuation, division, reissue or reexamination of the Patent Application.

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, certifies that it is the Assignee of the entire right, title and interest in the Patent Application identified above by virtue of Assignment from the inventor(s) of the Patent Application identified above. The Assignment is recorded in the Patent and Trademark Office as identified below.

<u>ERD</u> <u>Case No.</u>	<u>U. S. Serial</u> <u>No.</u>	<u>Assignment</u> <u>Execution Date(s)</u>	<u>Reel</u>	<u>Frame</u>
NP007	10/733,094	December 5, 2003	014817	0811

The undersigned is empowered to sign this certificate on behalf of the Assignor.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

EPSON RESEARCH AND DEVELOPMENT, INC.

By:

Junichi Okada

Junichi Okada

President

Aug. 10/04

Date



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



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AUGUST 23, 2004

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EPSON RESEARCH AND DEVELOPMENT, INC.  
ROSALIO HARO  
INTELLECTUAL PROPERTY DEPARTMENT  
150 RIVER OAKS PARKWAY, SUITE 225  
SAN JOSE, CA 95134

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RECORDATION DATE: 08/11/2004

REEL/FRAME: 015018/0414  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

EPSON RESEARCH AND DEVELOPMENT,  
INC.

DOC DATE: 08/10/2004

ASSIGNEE:

SEIKO EPSON CORPORATION  
4-1 NISHISHINJUKU 2-CHOME,  
SHINJUKU-KU  
TOKYO, JAPAN

SERIAL NUMBER: 10733143

FILING DATE: 12/11/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: TEMPERATURE COMPENSATION CIRCUIT



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PAGE 003/004

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015018/0414 PAGE 2

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
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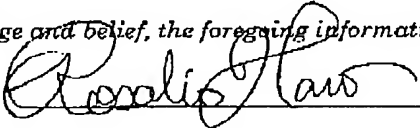
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Patent and Trademark Office

NP006

To The Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<b>1. Name of conveying party(ies):</b> Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b> Name: <i>Selko Epson Corporation</i> Internal Address: Street Address: <i>4-1 Nishishinjuku 2-Chome, Shinjuku-ku, Tokyo, Japan</i>	
<b>3. Nature of Conveyance:</b>  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: August 10, 2004		Additional name(s) and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No(s). 10/733,143  B. Patent No(s).  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Intellectual Property Department Epson Research and Development, Inc. 150 River Oaks Parkway, Suite 225 San Jose, CA 95134 Customer No. 20178		<b>6. Total number of applications and patents involved:</b>  1	
		<b>7. Total fee (37 CFR 3.41).....\$40.00</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account.	
		<b>8. Deposit Account Number:</b> <u>19-2746</u>	
<b>DO NOT USE THIS SPACE</b>			
<b>9. Statement and signature:</b> <i>To the best of my knowledge and belief, the foregoing information is true and correct and any copy is a true copy of the original document.</i>  Rosalio Haro  Date: 08/11/04 Registration No. 42,633			
Total number of pages including cover sheet, attachments and document:			3

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<u>ERD Case No.</u>	<u>U. S. Serial No.</u>	<u>U. S. Filing Date</u>	<u>Title</u>
NP006	10/733,143	December 11, 2003	Temperature Compensation Circuit

By its undersigned representative, the Assignor agrees

a. to execute all papers necessary in connection with the Patent Application and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute a separate Assignment in connection with such application as the Assignee may deem necessary or expedient;

b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application or any continuation, division, reissue or reexamination thereof and to cooperate with

the Assignee in every way possible in obtaining evidence and going forward with such interference; and

c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on the Patent Application and on any continuation, division, reissue or reexamination of the Patent Application.

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

EPSON RESEARCH AND DEVELOPMENT, INC., a California Corporation, certifies that it is the Assignee of the entire right, title and interest in the Patent Application identified above by virtue of Assignment from the inventor(s) of the Patent Application identified above. The Assignment is recorded in the Patent and Trademark Office as identified below.

<u>ERD</u> <u>Case No.</u>	<u>U. S. Serial</u> <u>No.</u>	<u>Assignment</u> <u>Execution Date(s)</u>	<u>Reel</u>	<u>Frame</u>
NP006	10/733,143	December 3, 2003	014800	0081

The undersigned is empowered to sign this certificate on behalf of the Assignor.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

EPSON RESEARCH AND DEVELOPMENT, INC.

By:

Junichi Okada

Junichi Okada

President

Aug. 10/04

Date